Fig. 1

10 ↓

12

Source

14 Network

18
Network Interface

20
Buffer

22
DeMux

38
Clock

26
Memory

24
Video Decoder

28
Audio Decoder

30
Memory

32
D/A NTSC Encoder

36
D/A

34
TV

Analog NTSC Video Signal

Analog Audio Signal

Bus 44

46
Memory

42
Bus Interface

40
CPU

16 ↗

50
Determine buffer occupancy level (B.O.L.)

52
If desired, determine time rate of change of B.O.L.

54
B.O.L. too high ?

Y

56
Speed up decoder clock, if desired in proportion to time rate of change of B.O.L.

N

60
too low ?

Y

62
Slow down decoder clock rate, if desired in proportion to time rate of change of B.O.L.

N

58
Continue monitoring B.O.L.

Fig. 2

Buffer
Occupancy

68

Decoder buffer size

66

Upper Threshold

64

74

72

70

Lower Threshold

Time
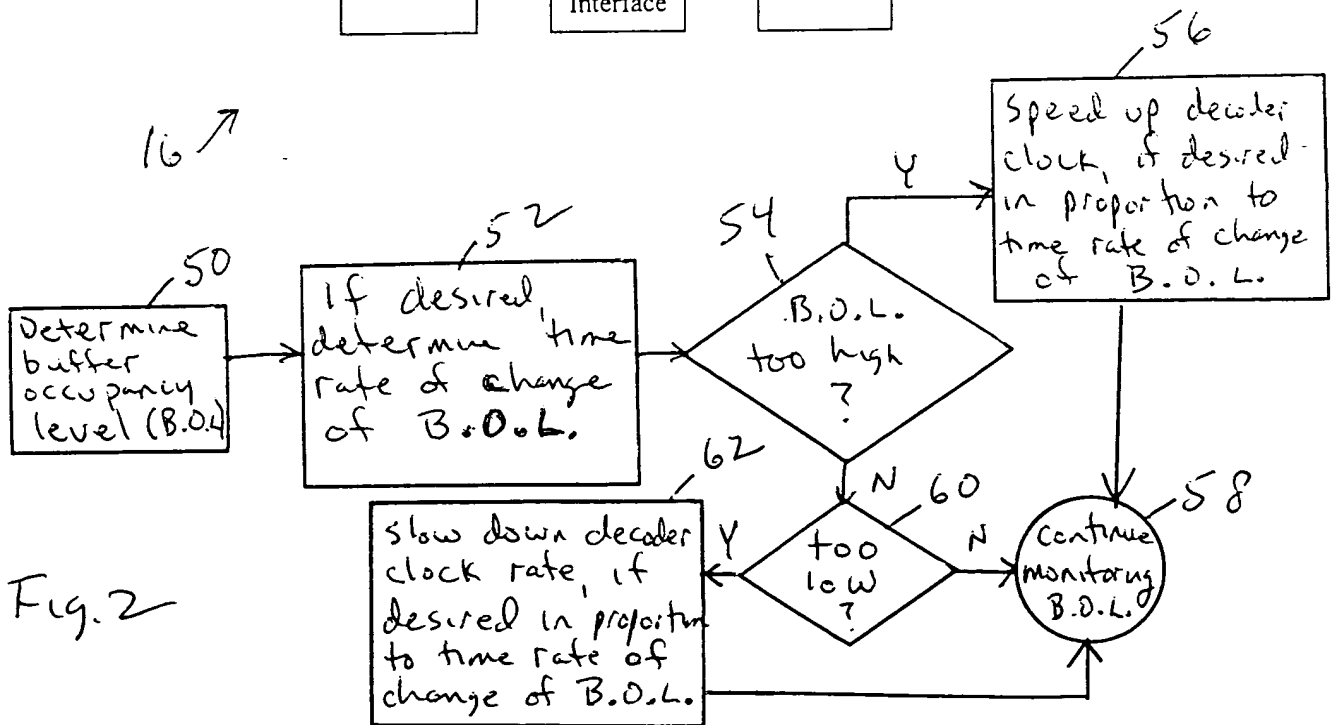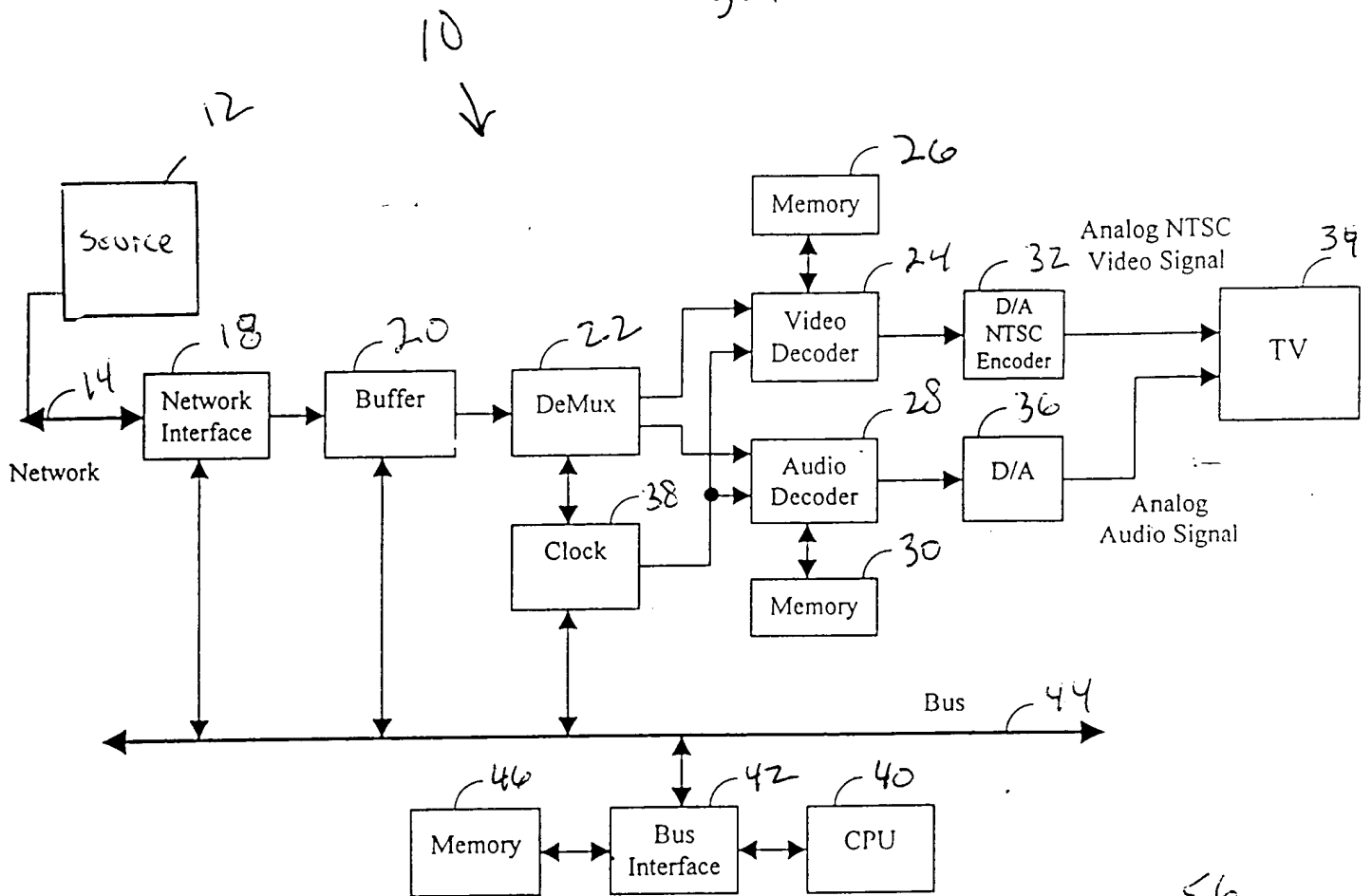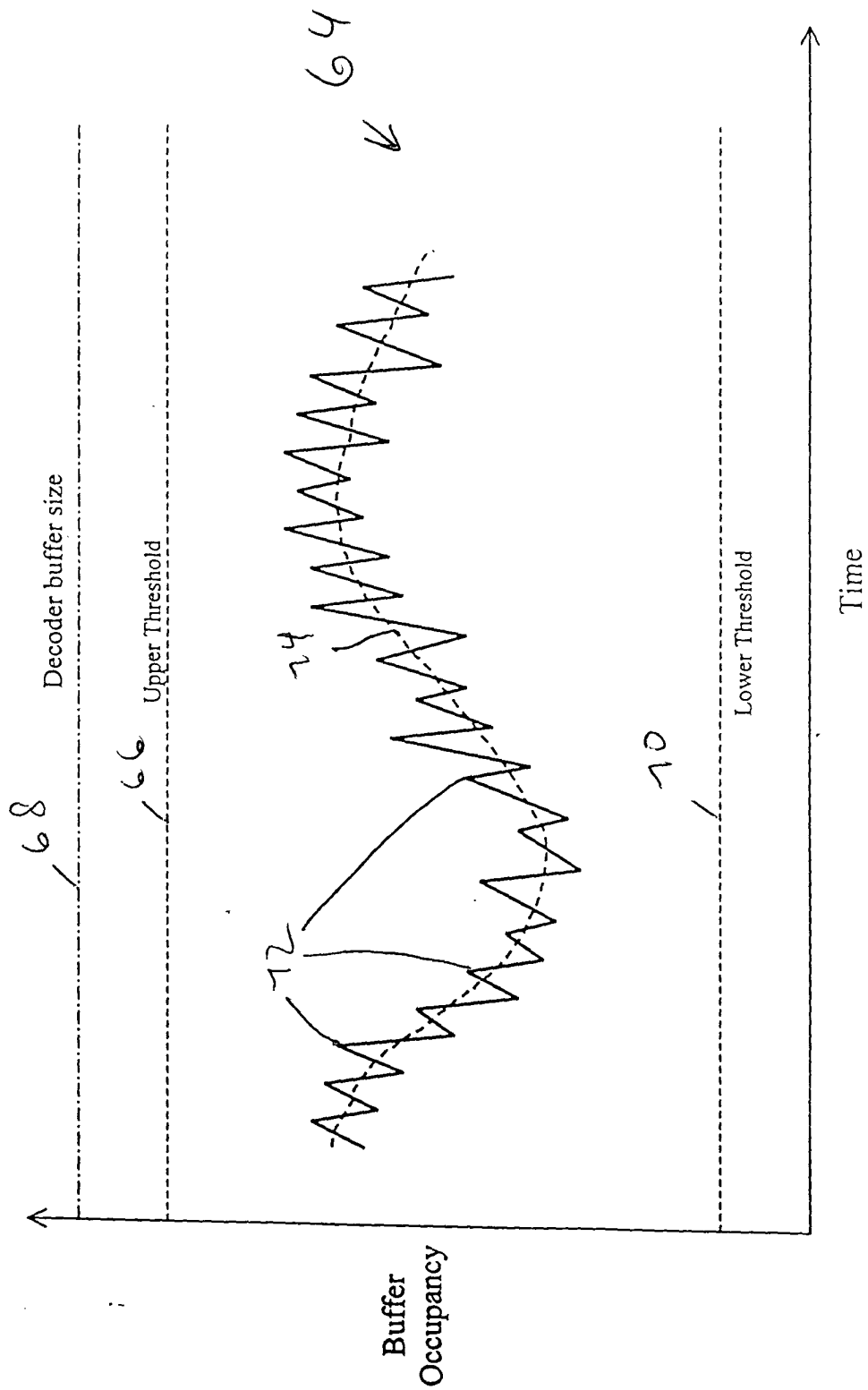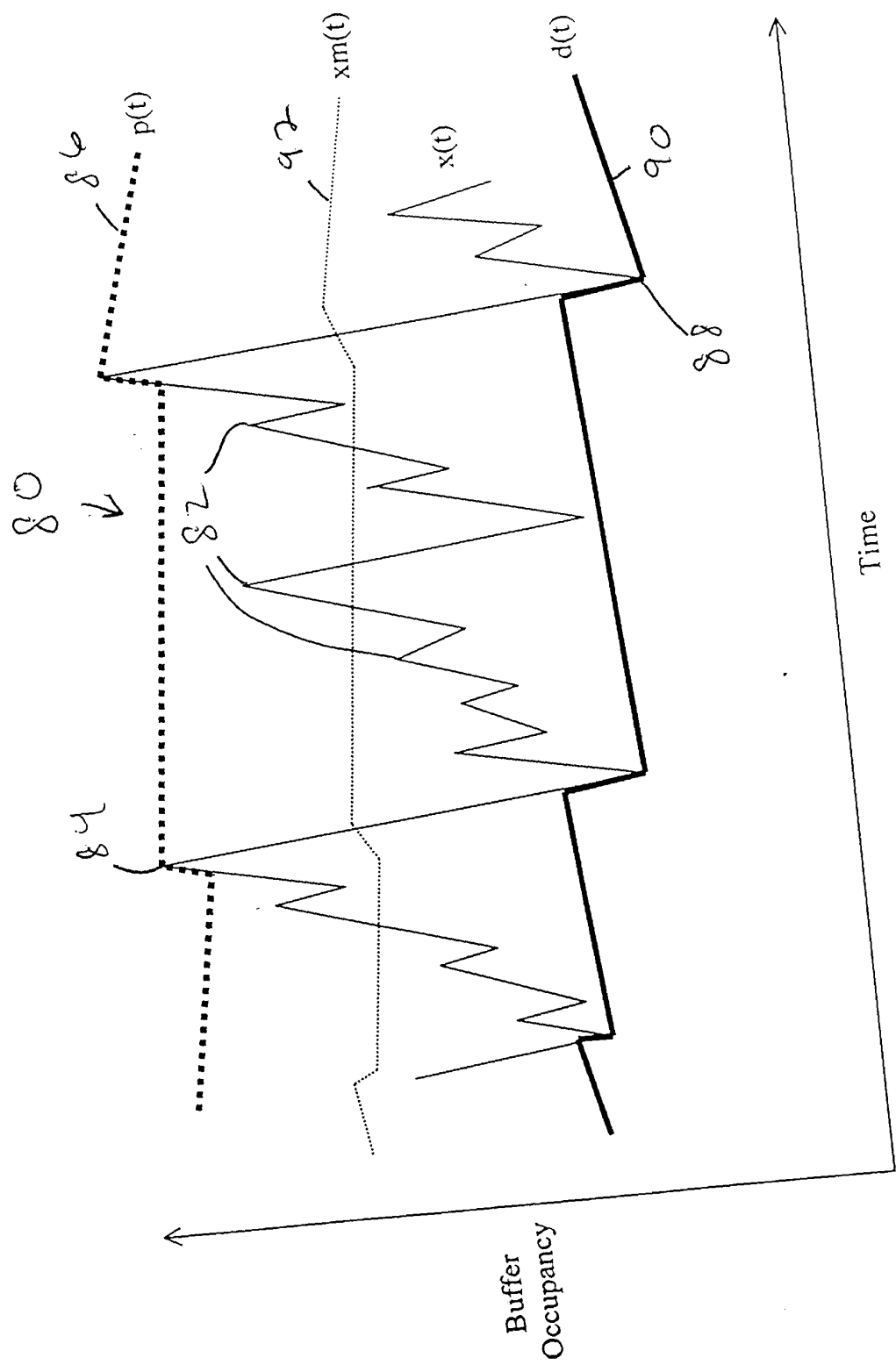
Fig. 3   Decoder Buffer Fullness Trajectory

Fig. 4 Decoder Buffer Fullness Trajectory